

IN THE CLAIMS

1. (Currently Amended) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is isotactic polypropylene, ~~selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends.~~
2. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer comprises C₈ to C₁₀₀ paraffins.
3. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer comprises C₆ to C₅₀ isoparaffins.
4. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer comprises C₁₀ to C₁₀₀ n-paraffins.
5. (Original) The composition of Claim 1, wherein the T_g of the polyolefin decreases from 4 to 10°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C.
6. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer has a pour point of less than -40°C.
7. (Original) The composition of Claim 1, wherein the non-functionalized plasticizer has a viscosity of from 0.1 to 3000 cSt at 100°C.

8. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer has a dielectric constant at 20°C of less than 2.3.
9. (Previously Presented) The composition of Claim 1, wherein the non-functionalized plasticizer has a specific gravity of less than 0.91.
10. (Original) The composition of Claim 1, wherein aromatic moieties are substantially absent from the non-functionalized plasticizer.
11. (Original) The composition of Claim 1, wherein the weight average molecular weight of the non-functionalized plasticizer is from 100 to 25,000 g/mol.
12. (Original) The composition of Claim 1, wherein the weight average molecular weight of the non-functionalized plasticizer is from 200 to 10,000 g/mol.
13. (Cancelled)
14. (Cancelled)
15. (Currently Amended) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is highly isotactic polypropylene.
16. (Currently Amended) The composition of Claim 1, further comprising slip agent, ~~wherein the polyolefin is a copolymer comprising propylene derived units and units selected from ethylene derived units or C₄ to C₂₀ a olefin derived units~~.

17. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer has a weight average molecular weight of 100 to 25,000 g/mol and comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is a propylene impact copolymer comprising from 40% to 95% by weight of a Component A and from 5% to 60% by weight of a Component B based on the total weight of copolymer; wherein Component A comprises propylene homopolymer or copolymer, the copolymer comprising 10% or less by weight ethylene, butene, hexene or octene comonomer; and wherein Component B comprises propylene copolymer, wherein the copolymer comprises from 5% to 70% by weight ethylene, butene, hexene and/or octene comonomer, and from 95% to 30% by weight propylene.
18. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, or mixtures thereof, where the composition further comprises a plastomer.
19. (Original) The composition of Claim 1, wherein polyethylene having a weight average molecular weight of from 500 to 10,000 is substantially absent.
20. (Previously Presented) An article of manufacture selected from films, sheets, fibers, woven and nonwoven fabrics, tubes, pipes, automotive components, furniture, sporting equipment, food storage containers, transparent and semi-transparent articles, toys, tubing and pipes, or medical devices comprising the composition of Claim 1.

21. (Cancelled)
22. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer comprises C₈ to C₁₀₀ paraffins.
23. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer comprises C₆ to C₅₀ isoparaffins.
24. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer comprises C₁₀ to C₁₀₀ n-paraffins.
25. (Currently Amended) The composition of Claim 17 21, wherein the T_g of the polyolefin decreases from 4 to 10°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C.
26. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer has a pour point of less than -40°C.
27. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer has a viscosity of from 0.1 to 3000 cSt at 100°C.
28. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer has a dielectric constant at 20°C of less than 2.3.
29. (Currently Amended) The composition of Claim 17 21, wherein the non-functionalized plasticizer has a specific gravity of from 0.700 to 0.860.
30. (Currently Amended) The composition of Claim 17 21, wherein aromatic moieties are substantially absent from the non-functionalized plasticizers.

31. (Currently Amended) The composition of Claim 17 24, wherein the weight average molecular weight of the non-functionalized plasticizer is from 200 to 25,000 g/mol.
32. (Currently Amended) The composition of Claim 17 24, wherein the weight average molecular weight of the non-functionalized plasticizer is from 200 to 10,000 g/mol.
33. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends and, wherein the polyolefin is an isotactic propylene homopolymer.
34. (Cancelled)
35. (Currently Amended) An article of manufacture selected from films, sheets, fibers, woven and nonwoven fabrics, tubes, pipes, automotive components, furniture, sporting equipment, food storage containers, transparent and semi-transparent articles, toys, tubing and pipes, or medical devices comprising the composition of Claim 17 Claim 21.
36. (Cancelled)
37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Cancelled)

48. (Cancelled)

49. (Cancelled)

50. (Cancelled)

51. (Cancelled)

52. (Cancelled)

53. (Cancelled)

54. (Cancelled)

55. (Cancelled)

56. (Cancelled)

57. (Previously Presented) The composition of claim 1 wherein the non-functionalized plasticizer has a pour point greater than -120 °C.

58. (Previously Presented) The composition of claim 1 wherein the non-functionalized plasticizer has a pour point of less than -50°C.

59. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -60°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends.

60. (Currently Amended) The composition of claim 17 21 wherein the non-functionalized plasticizer has a pour point greater than -120 °C.

61. (Currently Amended) The composition of claim 17 21 wherein the non-functionalized plasticizer has a pour point of less than -50°C.

62. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -60°C; wherein the T_g of

the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends.

63. (Cancelled) The composition of Claim 1, wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof.
64. (Cancelled) The composition of Claim 21, wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof.
65. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, wherein the composition further comprises plastomer having a 1% secant flexural modulus of from 10 MPa to 150 MPa.
66. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are

reactor blends, where the composition further comprises a plastomer which is a copolymer of ethylene and from 2 to 35 weight % of C₃ to C₁₀ alpha-olefin derived units.

67. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, where the composition further comprises a plastomer which is a copolymer of ethylene and from 2 to 35 weight % of C₃ to C₁₀ alpha-olefin derived units.
68. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends wherein the composition further comprises plastomer having a 1% secant flexural modulus of from 10 MPa to 150 MPa.
69. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact

copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends wherein the composition further comprises plastomer having a 1% secant flexural modulus of from 10 MPa to 150 MPa.

70. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends where the composition further comprises a plastomer which is a copolymer of ethylene and from 2 to 35 weight % of C_3 to C_{10} alpha-olefin derived units.
71. (Cancelled)
72. (Cancelled)
73. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C_6 to C_{200} paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, wherein the composition further comprises plastomer having a 1% secant flexural modulus of from 10 MPa to 150 MPa.

74. (Currently Amended) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer, wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, ~~The composition of claim 71~~ where the composition further comprises a plastomer which is a copolymer of ethylene and from 2 to 35 weight % of C₃ to C₁₀ alpha-olefin derived units.

75. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends wherein the composition further comprises plastomer having a 1% secant flexural modulus of from 10 MPa to 150 MPa.

76. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends where the composition further comprises a plastomer which is a

copolymer of ethylene and from 2 to 35 weight % of C₃ to C₁₀ alpha-olefin derived units.

77. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, wherein the composition further comprises a plastomer.
78. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and wherein the composition further comprises plastomer having a melting temperature of from 30 to 80 °C (first melt peak) and from 50 to 125 (second melt peak).
79. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are

reactor blends and wherein the composition further comprises plastomer having a melting temperature of from 30 to 80 °C (first melt peak) and from 50 to 125 (second melt peak).

80. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, wherein the composition further comprises plastomer having a melting temperature of from 30 to 80 °C (first melt peak) and from 50 to 125 (second melt peak).
81. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer having a pour point of less than -30°C; wherein the T_g of the polyolefin decreases by at least 2°C for every 4 wt% of non-functionalized plasticizer added to the composition, while the T_m remains within 1 to 2 °C, and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends wherein the composition further comprises plastomer having a melting temperature of from 30 to 80 °C (first melt peak) and from 50 to 125 (second melt peak).
82. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is

selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and wherein the composition further comprises plastomer having a melting temperature of from 30 to 80 °C (first melt peak) and from 50 to 125 (second melt peak).

83. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and wherein the composition further comprises a metallocene catalyzed copolymer of ethylene and propylene, 1-butene, 1-hexene, or 1-octene having a density of 0.86 to 0.900 g/cm³ and an Mw/Mn of 1.5 to 5.
84. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C₆ to C₂₀₀ paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and wherein the composition further comprises a metallocene catalyzed copolymer of ethylene and 1-butene, 1-hexene, or 1-octene having a density of 0.86 to 0.900 g/cm³ and an Mw/Mn of 1.5 to 5.
85. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises

C_6 to C_{200} paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and wherein the composition further comprises a metallocene catalyzed copolymer of ethylene and 1-octene having a density of 0.86 to 0.900 g/cm^3 and an Mw/Mn of 1.5 to 5.

86. (Currently Amended) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C_6 to C_{200} paraffins having a pour point of less than -40°C , wherein the polyolefin is isotactic polypropylene, selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, and where elastomers are not added to the composition.
87. (Cancelled)
88. (Previously Presented) A plasticized polyolefin composition comprising from 99.9 wt% to 60 wt% polyolefin; and from 0.1 wt% to 40 wt% of a non-functionalized plasticizer; wherein the non-functionalized plasticizer comprises C_6 to C_{200} paraffins having a pour point of less than -30°C and wherein elastomers are substantially absent from the composition, and wherein the polyolefin is selected from propylene homopolymers, propylene copolymers, propylene impact copolymers, or mixtures thereof, where the propylene impact copolymers are reactor blends, where the composition further comprises nucleating agent.
89. (Cancelled)